

PHENIX WEEKLY PLANNING

2/2/06 Don Lynch

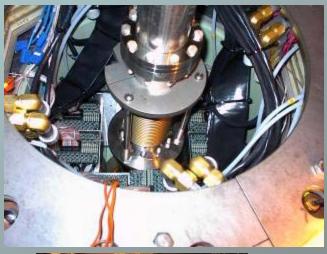


Hall technical support 2005

Prep Schedule for Run 6

- BBC N&S dried, tested re-installed, final tested [DONE]
- MuTr FEE and anode purge lines dried [DONE]
- MuTr HV & LV repairs and tests [DONE]
- Install Lampshades on MMS [DONE]
- · Receive MPC South (Received 1/8/06)
- Prepare EC for move to IR (carpenters) [DONE]
- Re-install seismic restraints on WC [DONE]
- Prepare MPC South (install LED's, bench elec. tests) [DONE]
- Uninstall TOF West Installation platform [DONE]
- Install MPC South [DONE]
- · Install HBD rack (lower only) [TODAY]
- · Move MUID collar to IR [DONE]
- Install MPC cable tray [DONE]











Prep Schedule for Run 6

- · Remove upper HBD I-beams, use fg unistrut for now [DONE]
- EC roll in Carpenters to do platforms [DONE]
- Pink sheets [DONE]
- MPC South installation [DONE]
- · CM area sweep for magnet test [DONE]
- Magnet tests [DONE]
- · Continue blue sheets [DONE]
- Connect EC Services [DONE]
- ·Install shield wall [DONE]
- DC repairs [DONE]
- Move MMS North
- · Install MUID collar
- · Fabricate BLM Test Diode holders
- Fabricate RXNP Mag Test Fixture
- Complete CM area HBD plumbing [DONE]









Prep Schedule for Run 6

Week of Feb. 6 - Feb. 10, 2006

- RXNP magnet tests
- Install plug door
- · Start of PHENIX watch shifts
- Start flammable gas flow
- Blue ring ready for beam Feb. 6, limited IR access
- · All up commissioning
- Start of Run Party

Week of Feb. 13- Feb. 17, 2006

- · Yellow ring ready for beam
- · Install MPC electronics on eyebrow
- · All up commissioning

Week of Feb. 21 - Feb. 24, 2006 (Pres. Day Holiday 1/20/06)

- · Install Beam Loss Monitor
- Start of run shifts

Week of Feb. 27 - Mar. 4

Start physics runs





THE SUPPORT SUPPORT

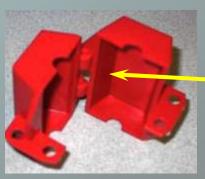
CM Lift Table Extensions



First extension received from Central Shops. Minor modification needed to mount rails. Otherwise works as planned. Was successfully used for DC repairs



Drift Chamber Repairs

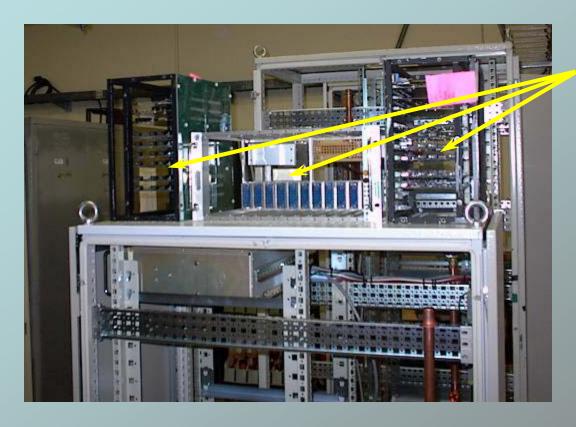


Plug lock for lift table. Table is to be operated by authorized techs only. To be locked out when BLM test fixture is installed.





MPC Installation



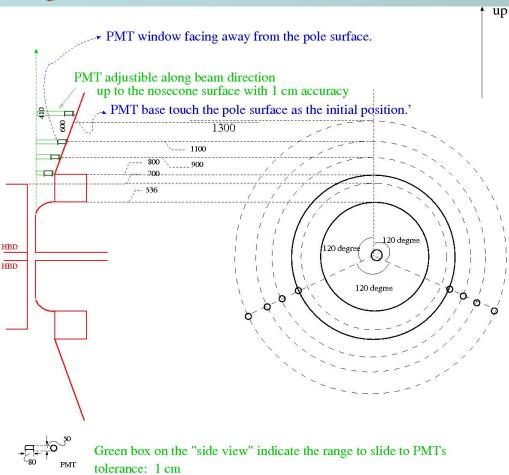
MPC electronics to be on top of MuTr rack on eyebrow

Electronics not ready yet



THE SURPLY SURPL

RXNP Magnet Field Tests



PMT radial position in south pole:

- * 80, 90, 110, 130 cm
- * 2 branch located at +/-120 degree relative to the UP direction

PMT radial position in North pole:

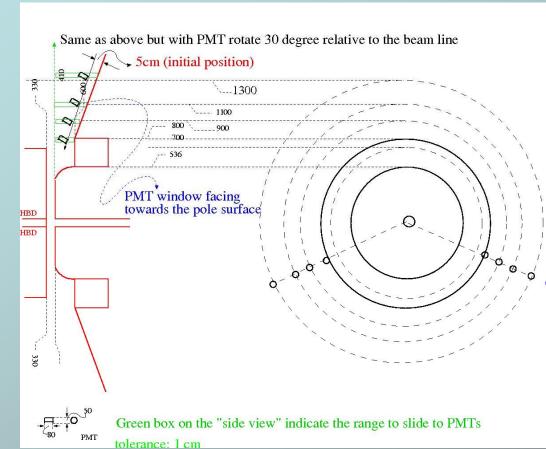
- * 90, 110, 130 cm
- * 2 branch located at +/-120 degree relative to the UP direction

The plot on the left is an illustration for south





RXNP Magnet Field Tests



PMT radial position in south pole:

- * 80, 90, 110, 130 cm
- * 2 branch located at +/-120 degree relative to the UP direction

PMT radial position in North pole:

- * 90, 110, 130 cm
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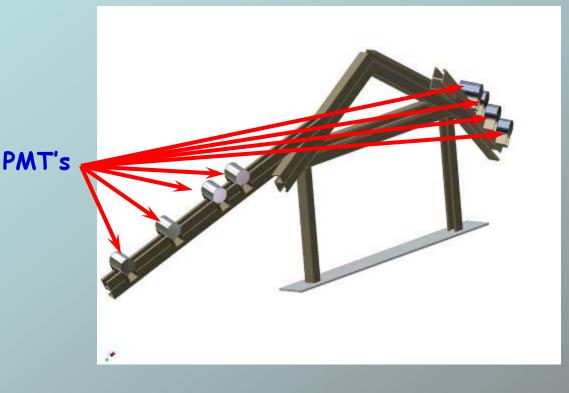
The plot on the left is an illustration for south





RXNP Magnet Field Tests

Made from fiberglas unistrut with precision cut angles. To be supported from lower HBD I-beams

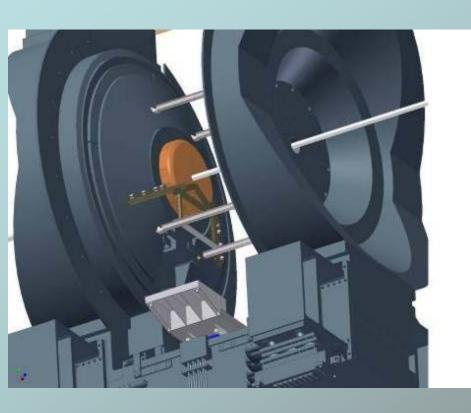


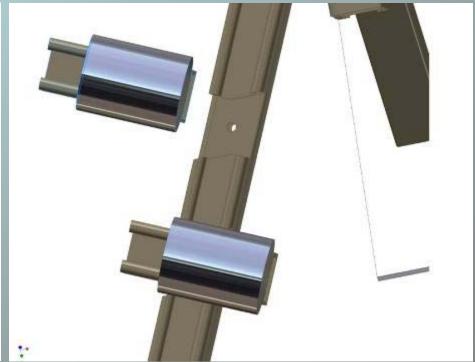






RXNP Magnet Field Tests



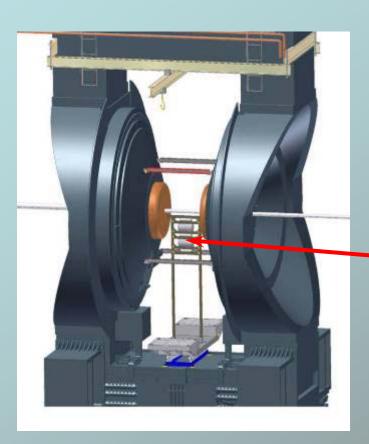


Installation



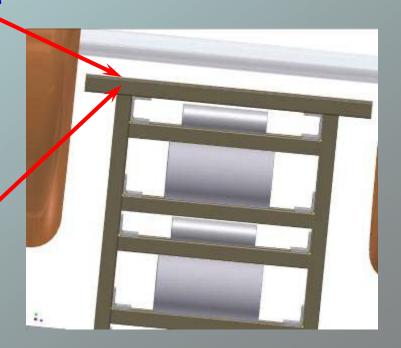


Beam Loss Monitors



Stripixel sensors and diodes go on this surface

BLM Stand with BLM's and Chipmunks

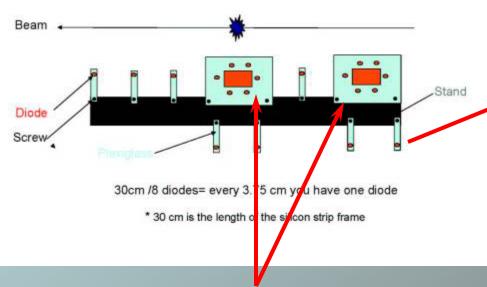




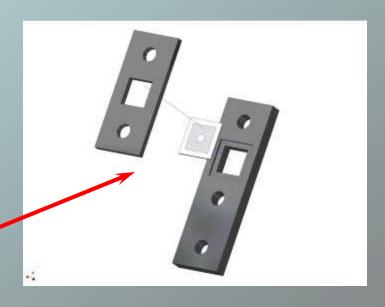


Beam Loss Monitors

Idea for Mechanical Support of the Sensors/Diodes for Radiation Tests at IR



Bare stripixel sensors (2)

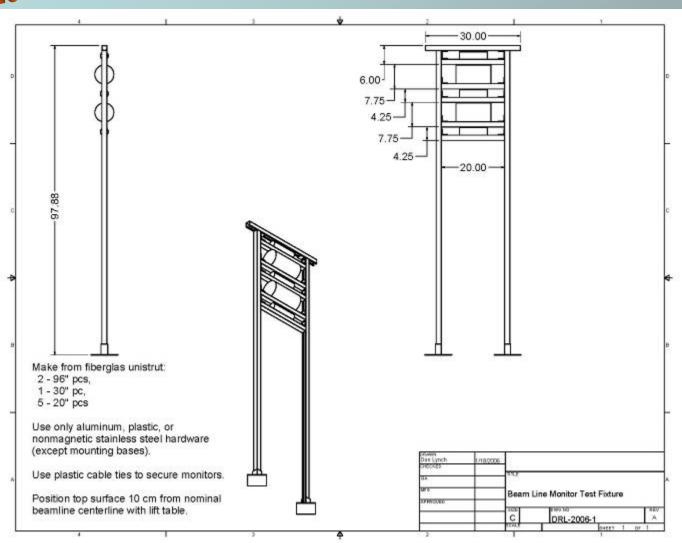


Need to make holders for diodes. 2 size diodes 8 of each for test.



HENRE SUPPORT 2005

Revised BLM support design





The Support 4005

Other Projects

TOF West

· No further work until next shutdown

HBD

- All gas work inside IR to be completed prior to end of shutdown
- · Will need new He bags?
- Plan for installation of $\frac{1}{2}$ final detector late in run 6 using lower rack only
- · Plan B install prototype during run 6
- Need to design & fabricate cable support structure for prototype and final design

Bridge Utilities

 No water until next summer. Shutoff valves to be closed and posted until manifolds are tested

MPC North

• New enclosure & fixture design to be based on lessons learned from south installation

RXNP

· No design info yet?





HBD Electronics



HBD low voltage and signal electronics rack (installed on east-central pedestal)

HBD High Voltage Rack (to be located on Bridge)







HBD Gas Supply



HBD transparency monitor hutch ready to install instrumentation when it arrives

TOF/HBD Gas Shared Flow Control Rack HBD to be single pass for Run 6 Electronics rack
In Gas Mixing
House





HBD Gas Supply



Gas Pad
Location for
CF4 bottles

HBD Gas flow panel Installed. HBD in and out lines are short circuited and now flowing Argon to maintain cleanliness. Stainless Gas Lines to top of CM

Piping in IR complete. Flexible lines allow CM to move for maintenance



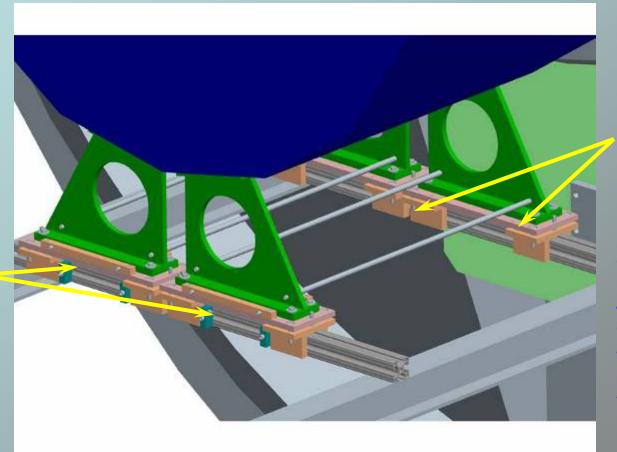


HBD Mechanical Support

HBD Support

X, Y, Z

adjustments on this side



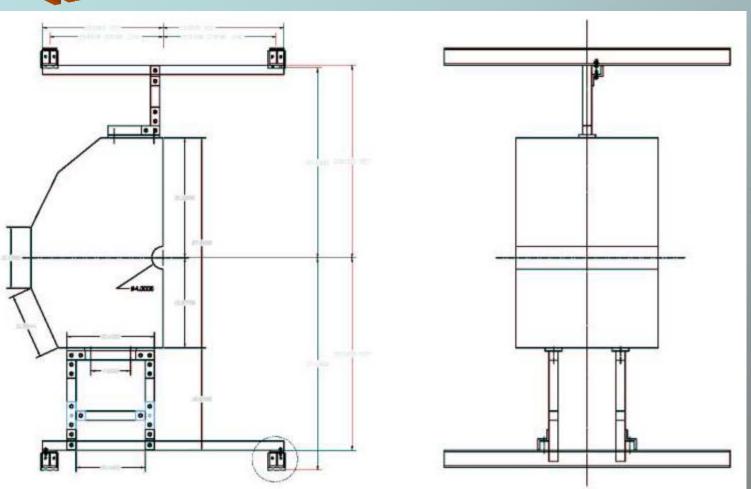
HBD Support
X, Y
adjustments on this side

Design of details complete ready for fabrication.
Last minute changes to HBD mounting interface to be addressed before routing drawings to shops for fabrication.



THE SUPPORT SUPPORT

HBD Prototype Mounting



Prototype can not use final design mounting due to differences in location of connectors and other basic design differences.

Final HBD design is not yet fixed.

Prototype mounting to be fabricated from fg unistrut.



The Support 2005

LN₂ Storage Dewar for BBC

Acme Cryogenics 6000 Gallon vessel



23' long x 10'4" high, 7' wide footprint 219psig MAWP, we would set MOP to 125psig.
Original Mfr.:
Linde, NB #6363 ser.#206
Remanufactured by Chart







LN₂ Storage Dewar for BBC





LN₂ Vessel to go here

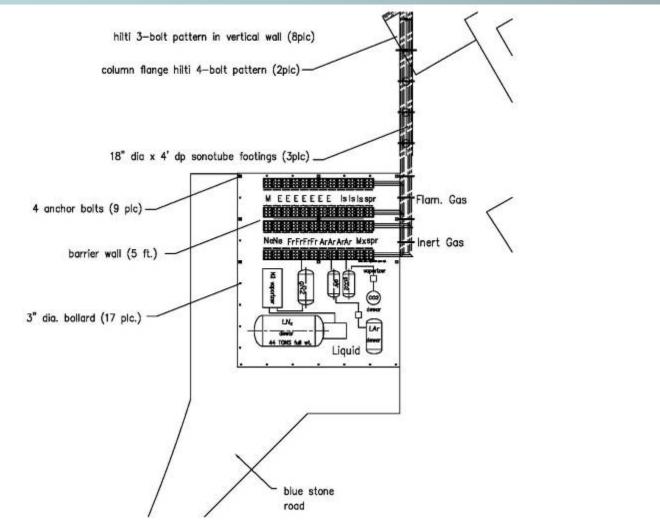


HIM Ceinted Suggert 2005

LN₂ Storage Dewar for BBC

Original Gas Pad
Design ~1998. Access
road shown was
rerouted to north side
of pad. Original design
indicated 44 ton tank.
Estimated weight of
6000 gallon tank 30
tons when full, 10 tons
when empty.

Experimental safety review required.







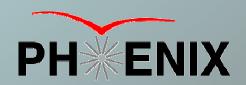
C-A Tasks

Prior to Run 6

- ·Build Shielding wall
- ·Remaining blue sheets

Postponed Shutdown 2006

- Install access platforms from EC top north and MMS
- · Replace emergency fan louvres
- ·Rewire/add IR ceiling lights on emergency power
- · Replace WC sliding platform hoisting cables
- · Analyze/balance rack water distribution
- · Mixing house exhaust fan maintenance





PHENIX Engineering & Tech Support Web Pages

Links for weekly planning meeting slides, long term planning and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

